

Appl. No. 09/889,086
Amdt. Dated January 18, 2006
Reply to Office action of November 16, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An on-vehicle communication system including first radio communication means for transmitting predetermined data having state information in the detection of an abnormal state, the predetermined location information and a terminal ID to an information service center on occurrence of a predetermined event,

said on-vehicle communication system comprising:

an on-vehicle terminal main unit having the first radio communication means to communicate with the information service center;

a mobile terminal detachable from said on-vehicle terminal main unit, and
means for detecting a relative distance between said on-vehicle terminal main unit and said mobile terminal,

wherein said means switches a main system for communications of said on-vehicle communication system,

wherein said mobile terminal includes voice communication means,

wherein said on-vehicle terminal main unit and said mobile terminal can communicate with each other via second radio communication means, and

wherein if said mobile terminal has finished having instructing the first radio communication means to transmit the predetermined data to the information service center, said mobile terminal has the second radio communication means transmit data for voice communication to the information service center via said on-vehicle terminal main unit.

Claim 2 (previously presented): The on-vehicle communication system according to claim 1, wherein said system further comprises location information detecting means as a function of said mobile terminal.

Claim 3 (currently amended): The on-vehicle communication system according to claim 1,

Appl. No. 09/889,086
Amdt. Dated January 18, 2006
Reply to Office action of November 16, 2005

wherein said mobile terminal further includes a function of ~~the~~ state sensor means.

Claim 4 (currently amended): An on-vehicle communication system according to claim 1,

wherein said mobile terminal further includes functions of ~~the~~ location information detecting means and ~~the~~ state sensor means.

Claim 5 (cancelled)

Claim 6 (currently amended): An on-vehicle communication system including first radio communication means for transmitting predetermined data having state information in the detection of an abnormal state, the predetermined location information and a terminal ID to an information service center on occurrence of a predetermined event,

said on-vehicle communication system comprising:

an on-vehicle terminal main unit;

a mobile terminal detachable from said on-vehicle terminal main unit, and

means for detecting a relative distance between said on-vehicle terminal main unit and said mobile terminal,

wherein said means switches a main system for communications of said on-vehicle communication system,

wherein said mobile terminal includes voice communication means,

wherein said on-vehicle terminal main unit and said mobile terminal can communicate with each other via second radio communication means,

wherein if said mobile terminal has finished having the first radio communication means transmit the predetermined data to the information service center, said mobile terminal has the second radio communication means transmit data for voice communication to the information service center via said on-vehicle terminal main unit, and

An information service center comprising:

wherein the information service center includes means for distinguish information whether the distinguishing whether information is transmitted from said on-vehicle terminal main unit or the whether the information is transmitted from said mobile terminal when said service center receives and restores the information transmitted from a plurality of

Appl. No. 09/889,086
Amdt. Dated January 18, 2006
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types of on-vehicle communication systems ~~according to one of Claim 1 through Claim 5 to~~
~~location information of each point~~ according to a predetermined communication protocol.

Claim 7 (currently amended): An on-vehicle communication system including location information detecting means; state sensor means for detecting an abnormal state and outputting state information; means for recording predetermined location information having time information and latitude/longitude information of the location information obtained by the location information detecting means at each point; first radio communication means for transmitting predetermined data having the state information, the predetermined location information and a terminal ID to an information service center on occurrence of a predetermined event; and voice communication means,

wherein said on-vehicle communication system comprises an on-vehicle terminal main unit and a mobile terminal detachable from said on-vehicle terminal main unit, and

wherein said mobile terminal includes voice communication means and data retaining means for temporarily storing data, and

~~wherein said mobile terminal has voice communication means, and~~

wherein said on-vehicle terminal main unit and said mobile terminal can communicate with each other via second radio communication means, ~~and~~

wherein the data retaining means temporarily stores data updated as required while the vehicle is traveling, and

wherein the mobile terminal can transmit data stored in the data retaining means to the on-vehicle terminal main unit, which can then transmit the data to the information service center.

Claim 8 (previously presented): The on-vehicle communication system according to claim 7,

wherein said data retaining means stores higher-priority emergency information data to be transmitted to the information service center, and the emergency information data stored in the data retaining means can be taken out of the vehicle together with said mobile terminal in the event of an emergency.

Claim 9 (previously presented): The on-vehicle communication system according

Appl. No. 09/889,086
Amdt. Dated January 18, 2006
Reply to Office action of November 16, 2005

to claim 8,

wherein said on-vehicle communication system makes voice communication with the information service center after transmitting the emergency information data to the information service center from said mobile terminal.

Claim 10 (previously presented): The on-vehicle communication system according to claim 9,

wherein communications from said mobile terminal to the service center are made via a communication apparatus different from said on-vehicle communication system associated with said mobile terminal, the communication apparatus existing in the close proximity of said mobile terminal.

Claim 11 (new): A communication system comprising:

an on-vehicle terminal comprising:

first communication means for communication with an emergency response center;

at least one state sensor for detecting an abnormal state of a vehicle; and

a mobile terminal comprising:

second communication means for communication with the on-vehicle terminal;

wherein the emergency response center includes means for distinguishing whether information is transmitted from the on-vehicle terminal or whether information is transmitted from the mobile terminal when the emergency response center receives and restores information transmitted from a plurality of types of on-vehicle communications systems according to a predetermined communication protocol.

Claim 12 (new): The communication system of claim 11, wherein the on-vehicle terminal comprises location information detecting means.

Claim 13 (new): The communication system of claim 11, wherein the mobile terminal comprises location information detecting means.

Claim 14 (new): The communication system of claim 11, wherein each of the on-vehicle

Appl. No. 09/889,086
Amdt. Dated January 18, 2006
Reply to Office action of November 16, 2005

terminal and the mobile terminal includes central processors.

Claim 15 (new): The communication system of claim 14, wherein each of the on-vehicle terminal and the mobile terminal includes displays.

Claim 16 (new): The communication system of claim 11, wherein the mobile terminal comprises data retaining means and the on-vehicle terminal comprises location information detecting means.